FULL COLOR, 64 PAGE MODEL ROCKETRY CATALOG

SEND FOR ONE TODAY!

Features more than 80 amazingly realistic flying model rockets including multi-stagers, scale vehicles, flying STAR TREK™ models, and interplanetary voyagers. Plus solid propellant rocket engines, launch systems, custom parts, tech reports and much, much more! Over 50 pages of full color model rocketry!!

©1975-1976 Paramount Pictures Corp.

ESTES

A SUBSIDIARY OF DAMON
ESTES INDUSTRIES
PENROSE, CO. 81240

☐ **Yes!** Please rush me an Estes Model Rocketry Catalog. I have enclosed 35¢ for postage and handling. Dept. 160

Name _____

Address _____

City _____ State _____ Zip _____

A Personal Message from Vern Estes about ONE OF AMERICA'S FASTEST GROWING–YET SAFEST–HOBBIES!

Welcome!

Someday it could be you standing on the surface of the moon looking out into space at an "Earth-rise". . .or on the red, rocky terrain of Mars where no man has gone before.

You may not have thought of it, but the astronauts – both Soviet and American – are among the greatest scientists the world has ever produced. They have to be expert in rocketry, aeronautics, astronomy, navigation, physics, geology, biology, and medicine.

The very best time to learn about rocketry is when you are young. And there is no better way than by building your own flying model rockets. You'll discover in no time that you'll be familiar with the technology, the jargon, and the physics of space flight.

Plus . . . you get all the excitement of watching your own realistic scale model streak skyward, reach apogee, and then float gently downward under its billowing recovery 'chute.

You're invited to read through this Mini-Catalog and get involved.

You'll find there's no other hobby that combines the excitement with the education you'll get from model rocketry.

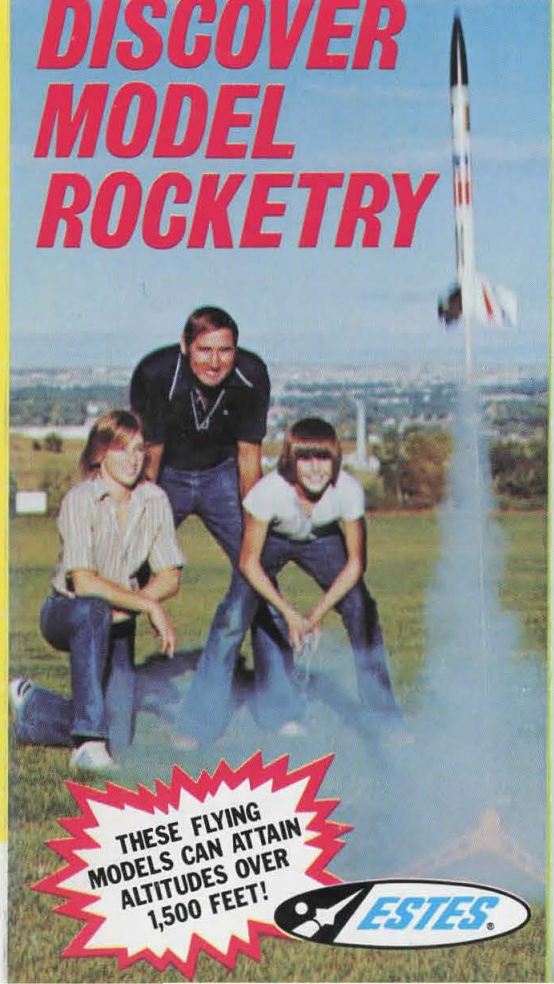
Sincerely,

Vern

Vern Estes

Your local ESTES Retailer is:

DISCOVER MODEL ROCKETRY



LOOK AT THESE INCREDIBLY REALISTIC FLYING MODEL ROCKETS!

You'll discover a never ending fascination for the hobby of model rocketry as your skills grow. The first rocket you build should be the CHALLENGER-1 Starter Kit - quick and easy to assemble . . .everything you need for lift-off in minutes. Once you see your CHALLENGER-1 rocket streak from its launch pad and flash skyward, rocketry will be in your blood!

Choose as your second rocket the BIG BERTHA or the ALPHA III. They're more challenging to build, but still relatively simple. Or . . . if you found the CHALLENGER-1 Starter Kit a breeze, then order the NIKE-X or the PHOTON DISRUPTOR which are Skill Level 2 assembly jobs.

Then . . . after you've built several of these models. . .you'll be ready for the big thrill of building and flying the ANDROMEDA or the NIKE-AJAX, or the more than 80 exciting designs featured in the complete Estes Model Rocketry Catalog.

The Skill Level numbers in each kit description recommend the skills and experience necessary to successfully complete the model. Be sure to follow the "Skill Level Chart" and complete a Skill Level 1 kit before attempting a Skill Level 2 model and so on.

SKILL LEVEL CHART

Skill Level No.	Description	To Be Built By
1	Very Simple	Beginning Rocketeer
2	Fairly Easy	Intermediate Rocketeer
3	Average	Craftsman Rocketeer
4	Challenging	Advanced Rocketeer
5	Extremely Challenging	Expert Rocketeer

Alpha III

Skill Level 1

Another great first or second kit. Plastic nose cone and fin unit make for easy, quick assembly. Features roll pattern decal, quick-release engine mount and 12" parachute. 12.25" from nose to tail. Shipping weight 10 oz.

Recommended Engines:
A8-3 (First flight) B6-4
C6-5

Cat. No. 1256

Only $3.00

Big Bertha

Skill Level 1

This "big" second rocket is ideal for demonstration launches. Slow, realistic lift-off for really spectacular flights. Two feet from nose to tail, quick-release engine mount, and giant 18" parachute for recovery. Shipping weight 11 oz.

Recommended Engines:
B6-4 (First flight) C6-5

Cat. No. 1223

Only $4.25

NIKE-X

Skill Level 2

Scale-like single-stage model of U.S. Army's 4th generation, two-stage surface-to-air interceptor missile. Nike-style design with U.S. Army decor. Nearly 2 feet from nose to tail and guaranteed to give really impressive performance.

Shipping weight 9 oz.

Recommended Engines:
A8-3 (First flight) B6-4
C6-5

Cat. No. 1270

Only $5.00

These are hobby kits requiring assembly. Glue, engines, launching and finishing supplies are not included.

PHOTON DISRUPTOR

Skill Level 2

A sophisticated scale missile from the 23rd century. Actual Photon Disruptor can be programed as an interceptor missile, proximity space mine, or a space distress signal. Our kit has easy, quick assembly with plastic nose cone, quick-release engine mount and 12" parachute.

Shipping weight 6 oz.

Recommended Engines:
A8-3 (First flight) B6-4
C6-5

Cat. No. 1282

Only $3.50

Andromeda

Skill Level 3

An incredible "starship of the future" designed for journeys to distant planets. This beauty is over 43" long and features simulated hybrid fission-ion propulsion engines, forward crew module and colorful mission decor. Comes with giant 18" recovery parachute.

Shipping weight 11 oz.

Recommended Engines:
B6-4 (First flight) C6-5

Cat. No. 1273

Only $6.00

NIKE AJAX

Skill Level 3

This supersonic anti-aircraft missile was designed to defend large cities and industrial complexes. Actual vehicle can reach 60,000 feet and speeds of 1,500 mph. This 12.4 to 1 semi-scale model comes with 18" recovery 'chute and authentic U.S. Army decor. Nearly 32" long.

Shipping weight 11 oz.

Recommended Engines:
B6-4 (First flight) C6-5

Cat. No. 1279

Only $6.00

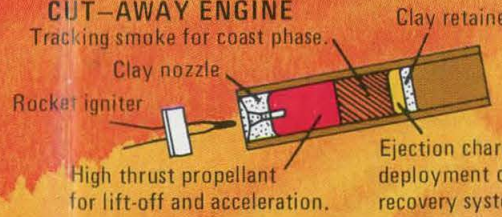
-IMPORTANT- IMPORTANT-

The rockets shown here can be flown over and over again. Simply replace the engine, igniter, and recovery wadding for each new flight.

ORDER THESE EXTRA ENGINES PROVEN SAFE AND RELIABLE IN OVER 100 MILLION FLIGHTS!

Engine	Cat. No.	Price	Average Altitude
A8-3	1598	**3 for $1.55**	450'
B6-4	1606	**3 for $1.65**	750'
C6-5	1614	**3 for $1.85**	1,000' & over

CUT–AWAY ENGINE

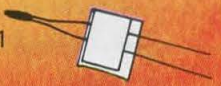

Tracking smoke for coast phase.
Clay retainer cap
Clay nozzle
Rocket igniter
High thrust propellant for lift-off and acceleration.
Ejection charge for deployment of recovery system.

YOU'LL NEED ROCKET IGNITERS AND RECOVERY WADDING TO FLY THESE KITS

Rocket Igniters: High performance "Solar" Rocket Igniters for use with your Challenger-1 Launch Control System.

Shipping weight 1 oz.

Cat. No. 2301 ..... **6 for 60¢**



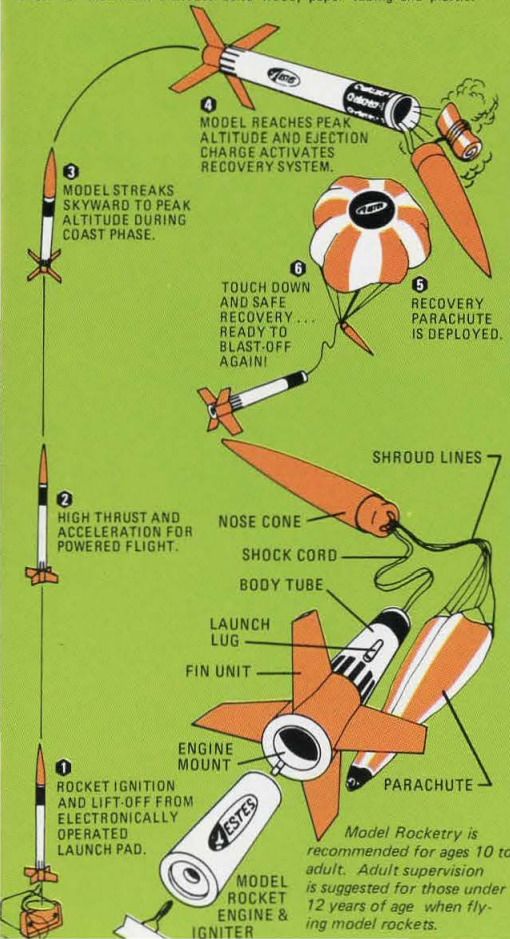
Recovery Wadding: Protects your parachute from the hot ejection gases of your rockets engine. Enough for 20 to 25 flights.

Shipping weight 6 oz.

Cat. No. 2274 ..... **Only 75¢**

Flight Sequence & Model Rocket Parts

Most model rocket kits are constructed of light-weight materials to allow for maximum altitudes--balsa wood, paper tubing and plastic.


4 MODEL REACHES PEAK ALTITUDE AND EJECTION CHARGE ACTIVATES RECOVERY SYSTEM.
3 MODEL STREAKS SKYWARD TO PEAK ALTITUDE DURING COAST PHASE.
6 TOUCH DOWN AND SAFE RECOVERY . . . READY TO BLAST-OFF AGAIN!
5 RECOVERY PARACHUTE IS DEPLOYED.
SHROUD LINES
2 HIGH THRUST AND ACCELERATION FOR POWERED FLIGHT.
NOSE CONE
SHOCK CORD
BODY TUBE
LAUNCH LUG
FIN UNIT
ENGINE MOUNT
PARACHUTE
1 ROCKET IGNITION AND LIFT-OFF FROM ELECTRONICALLY OPERATED LAUNCH PAD.
ESTES
MODEL ROCKET ENGINE & IGNITER

Model Rocketry is recommended for ages 10 to adult. Adult supervision is suggested for those under 12 years of age when flying model rockets.

"THIS IS WHERE TO BEGIN"

Challenger-1

Assembles in less than 30 Minutes!

Flying Model Rocketry Starter Kit

This high performance Challenger-1 rocket is very easy-to-assemble with bright orange plastic nose cone and fin unit. Features quick-finish decor with precolored body tube and realistic roll pattern decals. No painting required! This Challenger-1 rocket can be launched over and over again and returns via 12" recovery parachute. You need only replace the rocket engine, igniter, and recovery wadding for each new flight.

Challenger-1 Launch Control System features futuristically designed hand-held launch controller with arming lamp, safety key, launch button, and 15 feet of launch cable with micro igniter clips. Plus sleekly designed launch pad with blast deflector plate and 1/8"X36" two-piece launch rod. Entire system sets up quickly for launch and disassembles easily for compact storage.

Flight Pak includes three N.A.R. safety certified model rocket engines, parachute recovery wadding, and high reliability Solar Igniters for three exciting flights.

Special Bonus - New "Beginner's Tech Manual" filled with model rocketry data to get you started off right. (Ship. wt. 1 lb.)

Recommended Engines:
A8-3 B6-4 C6-5

Cat. No. 1416
ONLY $9.95

Can Attain Altitudes Over 1,000 Feet!

(Requires 6 volt lantern battery and glue-not included)